

2010 Missouri Census of Technology

DISTRICT LEVEL CENSUS N = 555 Districts/LEAs

- 1) Year district technology plan was last approved by DESE 2008 = 63 2009 = 285 2010 = 207
- 2) Board-approved education technology standards and population(s) that must meet the standards.

TYPE OF STANDARD	# LEAs	% LEAs
Locally-developed	469	85%
Adopted National Educational Technology Standards (ISTE NETS)	245	44%
Adopted Standards for Technological Literacy: Content for the Study of Technology (ITEA)	59	11%
Other (specify) <u>Show-Me Standards</u>	9	2%
None	19	3%

STUDENT POPULATION	# LEAs	% LEAs
Pre-K-2	490	86%
3-5	508	92%
6-8	519	94%
9-12	430	77%
Area Career Center (ACC)	50	9%
None	19	3%

STAFF POPULATION	# LEAs	% LEAs
Administrators	478	86%
Teachers	490	88%
Support services staff	441	79%
None	65	12%

- 3) Estimated total FTE of district-level staff or total hours of those directly responsible for technical maintenance and support of hardware.

EMPLOYEES	# LEAs	% LEAS	MEDIAN FTE
Yes - District staff	515	93%	1.5
None	40	7%	

NON-EMPLOYEES	# LEAs	% LEAS	MEDIAN # HRS
Yes – Contract hours	217	39%	100
None	338	61%	

- 4) District-supported administrative systems. (Check ALL that apply)

SYSTEM	# LEAs	% LEAS
Accounting/budgeting/ payroll	543	98%
Classroom website hosting	392	71%
Communication/email	526	95%
Course scheduling	476	86%
Discipline	502	90%
Distance education	262	47%
Extra-curricular scheduling	260	47%
Food Service	486	88%
Grade book	524	94%
Health Service	464	84%
Human resources	298	54%

SYSTEM	# LEAs	% LEAS
Instructional management system	258	46%
IEP management	472	85%
Inventory	343	62%
Library catalog	516	93%
School safety	222	40%
Student attendance	540	97%
Student fees	352	63%
Student performance	441	79%
Teacher evaluations	211	38%
Technical support	359	65%
Transportation	301	54%

- 5) All buildings in district are connected through a wide or local area network. Yes = 514 / 93% No= 41 / 7%

- 6) Core content area(s) in which technology is integrated. (Check ALL that apply)

550 / 99% Communication Arts 535 / 96% Mathematics 544 / 98% Science 526 / 95% Social Studies

- 7) Estimated percentage of following populations with district-provided email accounts.

STUDENT POPULATION	# LEAs	% LEAs
Pre-K-2	17	3%
3-5	47	8%
6-8	81	15%
9-12	139	25%
None	398	18%

STAFF POPULATION	# LEAs	% LEAs
Administrators	437	79%
Teachers	532	96%
Support services staff	525	95%
None	17	3%

- 8) Estimated percentage of district 8th graders who are technologically literate. 42149 of 75,228 Students = 56%
Median District = 77%

- 9) Amount budgeted for technology for current year. \$160,346, 301 Total \$288,912 Average \$55,000 Median

- 10) Dollar value of district E-rate discount for current year (per funding commitment decision letters). [N = 409 / 74%]
\$26,521,117 Total \$64,844 Average \$13,642 Median

11) Estimated percentage of E-rate discount used to support education technology. [N = 409 / 74%]
67% Average 80% Median

SCHOOL BUILDING LEVEL CENSUS N = 2246 Attendance Centers

PLANNING

1) Type of school technology plan: 144 / 6% Stand-alone 2100 / 94% Integrated in district plan 1 / <1% No building plan

TRAINING

1) Estimated percentage of faculty/staff in the school building at each skill level of education technology use.

FACULTY/STAFF	BEGINNER	INTERMEDIATE	ADVANCED	TOTAL
Administrator(s)	5%	62%	33%	100%
Teachers	12%	60%	28%	100%
Support services staff	25%	54%	21%	100%

2) Number of teachers in the school participating in education technology-related professional development.

HOURS COMPLETED	# BUILDINGS	% BUILDINGS	# TEACHERS
0 hours	564	25%	8,096
1 to 15 hours	2,062	92%	46,149
16 to 30 hours	999	44%	8,172
More than 30 hours	782	35%	4,906
Total			67,323

3) Number of eMINTS-trained teachers in school building.

eMINTS PROGRAMS	NONE (Buildings)	COMPLETED YEAR 1	COMPLETED YEARS 1 AND 2	TOTAL
Comprehensive eMINTS for Teachers	1,730	492 in 171 Bldgs	1,308 in 463 Bldgs	1,800
eMINTS for Education Technology Specialists	2,159	33 in 21 Bldgs	110 in 72 Bldgs	143
Other two-year eMINTS staff development programs	2,083	299 in 75 Bldgs	484 in 120 Bldgs	783

HARDWARE AND SUPPORT

1) Estimated total FTE of school building staff or total hours of others directly responsible for technical maintenance and/or support of hardware.

EMPLOYEES	# BLDGs	% BLDGs	MEDIAN FTE
District staff	1,846	82%	0.5
School certificated staff	431	19%	0.5
School non-certificated staff	428	19%	0.5
None	145	6%	

NON-EMPLOYEES	# BLDGs	% BLDGs	MEDIAN # HRS
Students	115	5%	40
Parents/community members	11	<1%	20
Vendors/contractors	579	26%	60
None	1,575	70%	

2) Age of computer and location within school building.

TYPE AND AGE OF COMPUTING DEVICE	Labs	INSTRUCTIONAL ROOMS							STUDENT ROOMS TOTAL	ADMIN. OFFICES	TOTAL
		CLASSROOMS									
PreK-2	3-5	6-8	9-12	ACC	All Rooms	Library/ Media Centers	STUDENT ROOMS TOTAL	ADMIN. OFFICES	TOTAL		
APPLE/MAC											
Less than 1 year old	2,260	451	941	493	232	120	2,237	923	5,420	176	5,596
1 – 3 years old	7,335	2,259	3,405	3,669	3,598	401	13,332	2,003	22,670	742	23,412
4 – 5 years old	3,374	1,547	1,677	1,467	910	227	5,828	1,139	10,341	333	10,674
6 years or older	1,534	1,352	1,400	1,168	1,000	50	4,970	426	6,930	146	7,076
MAC Sub-total	14,503	5,609	7,423	6,797	5,740	798	26,367	4,491	45,361	1,397	46,758
PC/PC COMPATIBLE											
Less than 1 year old	18,663	5,014	9,262	7,247	14,903	1,019	37,445	3,841	59,949	3,350	63,299
1 – 3 years old	49,583	12,271	17,394	17,887	26,949	4,418	78,919	11,744	140,246	12,003	152,249
4 – 5 years old	25,455	8,523	12,532	10,514	16,675	2,837	51,081	7,395	83,931	6,324	90,255
6 years or older	11,566	6,877	8,230	6,574	8,288	1,879	31,848	3,404	46,818	3,228	50,046
PC Sub-total	105,267	32,685	47,418	42,222	66,815	10,153	199,293	26,384	330,944	24,905	355,848
MAC/PC Total	119,770	38,294	54,841	49,019	72,555	10,951	225,660	30,875	376,305	26,302	402,606
Students per computer	7.43						3.94		2.36		2.21
HANDHELDs	1,647	1,318	3,917	1,969	2,185	105	9,494	800	11,941	1,127	13,068
TOTAL	121,417	39,612	58,758	50,988	74,740	11,056	235,154	31,675	388,246	27,429	415,675
Students per computer	7.33						3.78		2.29		2.14

3) Internet-connected and multimedia-equipped computers by location within school building.

TYPE OF COMPUTING DEVICE AND TYPE OF CONNECTION	Labs	INSTRUCTIONAL ROOMS							STUDENT ROOMS TOTAL	ADMIN. OFFICES	TOTAL			
		CLASSROOMS						Library/ Media Centers						
		PreK-2	3-5	6-8	9-12	ACC	All Rooms							
Wire Connection														
Desktop	86,834	30,599	41,191	34,159	49,948	8,660	164,557	22,943	274,334	20,430	294,764			
Laptop	1,378	1,144	1,825	1,484	1,687	660	6,800	839	9,017	1,623	10,640			
Handheld	13	181	743	81	149	0	1,154	46	1,213	121	1,334			
Sub-total	88,225	31,924	43,759	35,724	51,784	9,320	172,511	23,828	284,564	22,174	306,738			
Wireless Connection														
Desktop	1,626	814	2,053	900	1,247	279	5,293	541	7,460	170	7,630			
Laptop	26,937	3,796	8,240	11,186	18,718	909	42,849	5,580	75,366	2,732	78,098			
Handheld	186	82	302	751	467	2	1,604	31	1,821	614	2,435			
Sub-Total	28,749	4,692	10,595	12,837	20,432	1,190	49,746	6,152	84,647	3,516	88,163			
TOTAL CONNECTED	116,974	36,616	54,354	48,561	72,216	10,510	222,257	29,980	369,211	25,690	394,901			
Students per computer	7.61						4.00		2.41		2.25			
MULTIMEDIA-EQUIPPED	111,993	35,889	52,201	45,825	68,084	10,260	212,259	28,415	352,667	24,302	376,969			
Students per computer	7.94						4.19		2.52		2.36			

4) Technology by type and location within school building.

TYPE OF TECHNOLOGY	Labs	INSTRUCTIONAL ROOMS							STUDENT ROOMS TOTAL	ADMIN. OFFICES	TOTAL			
		CLASSROOMS						Library/ Media Centers						
		PreK-2	3-5	6-8	9-12	ACC	All Rooms							
TOTAL NUMBER ROOMS	4,153	14,431	13,530	14,442	19,571	2,087	64,061	2,251	70,465	14,140	70465			
# and % Rooms with:														
Telephone access	2,976 72%	9,881 68%	9,339 69%	9,929 69%	13,835 71%	1,705 82%	44,689 70%	2,035 90%	49,700 71%	13,669 97%	63,369 75%			
Plus Internet access (wired or wireless)	4,081 98%	14,358 99.5%	13,396 99%	14,372 99.5%	19,405 99.2%	2,005 96%	63,536 99.2%	2,184 97%	69,801 99.1%	13,845 98%	83,646 99%			
Plus one or more multimedia-equipped computers	4,046 97%	14,054 97%	13,213 98%	14,032 97%	18,758 95%	1,958 94%	62,015 97%	2,123 94%	68,184 97%	13,046 92%	81,230 96%			
Plus multimedia computers connected to Internet	4,005 96%	13,929 97%	13,093 97%	13,973 97%	18,232 93%	1,933 93%	61,160 95%	2,045 91%	67,210 95%	12,963 92%	80,173 95%			
Plus a dedicated projection device and access to a printer	3,312 80%	9,299 64%	10,156 75%	9,907 69%	12,658 65%	783 38%	42,803 67%	1,474 65%	47,589 68%	2,656 19%	50,245 59%			

5) Estimated typical (average) timeframe for resolving minor or routine technical problems/repairs.

WORKING DAYS	# BLDGS	% BLDGS
1 day	1,114	50%
2-3 days	911	41%
4-6 days	155	7%
7-10 days	40	2%
11 days or more	26	<1%

6) Estimated percentage of computers in working order on a typical (average) day. 98% Median

INTERNET CONNECTIVITY – DISTANCE LEARNING

1) School building Internet connection by bandwidth and delivery mode.

BANDWIDTH	# BLDGS	% BLDGS	DELIVERY MODE	# BLDGS	% BLDGS
56kb – 384 kb	12	<1%	Copper line	479	21%
385kb – 1.4mb	66	3%	Fiber	1,600	71%
1.5mb (T1) – 9.9mb	895	40%	DSL	87	4%
10mb – 45mb	578	26%	Satellite	6	<1%
45mb – 100mb	345	15%	Other: <u>Wireless = 26</u> <u>Combination = 9</u>	52	2%
>100mb	345	15%			
None	4	<1%	None/Unknown	21	<1%

2) Estimated percentage of computers connected to school building LAN (or district WAN). [100% Median](#)

3) Distance learning system(s) available to students in school building. (Check ALL that apply)

TYPE OF DISTANCE LEARNING SYSTEM	# BUILDINGS	% BUILDINGS
I-TV: two-way interactive (audio and video) television	442	20%
Desktop video conferencing: two-way interactive instruction	386	17%
Web-based online instruction via Internet: non-interactive	1,322	59%
Satellite: one-way instructional video	212	9%
Cable TV: one-way instructional video	1,052	4%
Other: United Streaming = 65 , Web-based instruction/testing = 12 , Moodle = 11	123	5%
None	390	17%

TECHNOLOGY USAGE

1) Estimated percentage of administrators, teachers, and students routinely using following applications.

(Average % / Median %)

APPLICATION	ADMINISTRATORS	TEACHERS	STUDENTS
Educational software	56% / 80%	84% / 100%	81% / 100%
Electronic Resources:			
Electronic encyclopedia	20% / 0%	34% / 25%	37% / 35%
Gale	8% / 0%	13% / 0%	14% / 0%
Learning Express Library	5% / 0%	8% / 0%	8% / 0%
Newsbank	10% / 0%	15% / 0%	14% / 0%

2) Estimated percentage of administrators, teachers, and students routinely using computers for following functions.

(Average % / Median %)

FUNCTION	ADMINISTRATORS	TEACHERS	STUDENTS
Produce media/multimedia/web products to demonstrate learning, make presentations	71% / 100%	73% / 80%	55% / 55%
Produce written/print products to demonstrate learning, make presentations	85% / 100%	88% / 100%	66% / 75%
Communicate (email) with peers, experts, others	96% / 100%	95% / 100%	28% / 5%
Communicate (email) with parents and students	92% / 100%	88% / 100%	20% / 0%
Conduct online research	86% / 100%	85% / 100%	64% / 75%
Participate in online courses (this year)	18% / 0%	20% / 10%	5% / 0%
Manage student records (spreadsheet/database)	91% / 100%	90% / 100%	
Track student performance	91% / 100%	91% / 100%	
Assess student performance	82% / 100%	87% / 100%	
Deliver and present instruction	50% / 50%	81% / 93%	
Prepare lesson plan(s)		83% / 100%	

3) Estimated total FTE of staff or others directly responsible for integration of technology into curriculum and instruction.

EMPLOYEES	# BLDGS	% BLDGS	MEDIAN FTE	NON-EMPLOYEES	# BLDGS	% BLDGS	MEDIAN # HRS
Instructional tech specialist	996	44%	0.50	Students	40	2%	15
Library/media specialist	1,405	63%	1.00	Regional center/RPDC	92	4%	15
School administrator	1,154	51%	1.00	Other: Business/Individuals	67	3%	25
Teacher	1,246	56%	0.50	None	2,056	92%	
School technical staff	305	14%	0.75				
District technical staff	981	44%	0.50				
Other: Curriculum = 84	161	7%	0.25				
None	95	4%					

4) Estimated percentage of teaching staff fully integrating technology into curriculum and instruction.

[68% Average](#) [75% Median](#)

5) School (or district) supported technology-mediated feedback. (Check ALL that apply)

ADMINISTRATIVE SYSTEM	# BLDGS	% BLDGS	ADMINISTRATIVE SYSTEM	# BLDGS	% BLDGS
Automated absentee system	882	39%	Listservs	375	17%
Electronic bulletin board	704	31%	Voice Mail	1,485	66%
Email	2,165	96%	Other: Parent Portal = 287 , Auto call/text = 201 , Moodle/Bb = 96	723	32%
Homework hotline via web	522	23%	None	24	<1%
Homework hotline via telephone	257	11%			